

Product Name: KD-Validated IQGAP1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01694**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 189.3kDa

Antigen Information

Gene Name	IQGAP1
Alternative Names	IQGAP1; IQ Motif Containing GTPase Activating Protein 1; P195; HUMORFA01; KIAA0051; SAR1; Ras GTPase-Activating-Like Protein IQGAP1; RasGAP-Like With IQ Motifs
Gene ID	8826.0
SwissProt ID	P46940
Immunogen	A synthesized peptide derived from human IQGAP1

Background

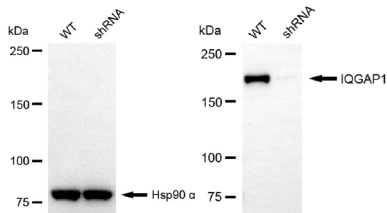
This gene encodes a member of the IQGAP family. The protein contains four IQ domains, one calponin homology domain, one Ras-GAP domain and one WW domain. It interacts with components of the cytoskeleton, with cell adhesion molecules, and with several signaling molecules to regulate cell morphology and motility. Expression of the protein is upregulated by gene

amplification in two gastric cancer cell lines. [provided by RefSeq, Jul 2008]

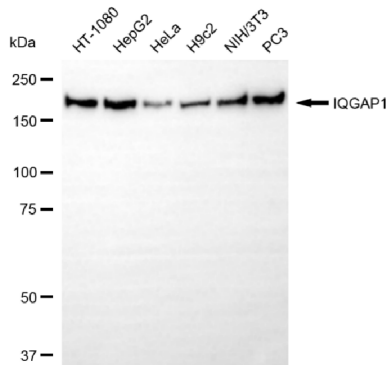
Research Area

Signal Transduction, Cancer

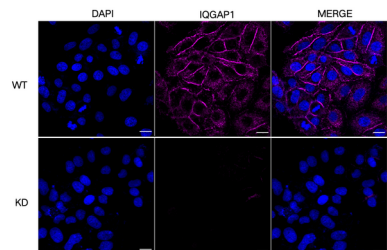
Image Data



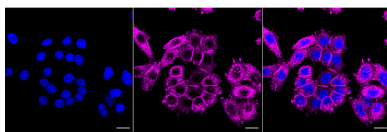
Western blotting analysis using IQGAP1 antibody (KVA01694). IQGAP1 expression in wild-type (WT) and IQGAP1 shRNA knockdown (KD) HepG2 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with IQGAP1 antibody (KVA01694, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



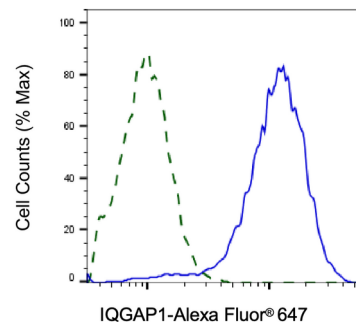
Western blotting analysis using IQGAP1 antibody (KVA01694). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with IQGAP1 antibody (KVA01694, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



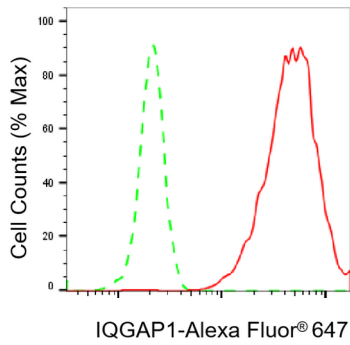
Immunocytochemical staining of HepG2 cells using IQGAP1 antibody (KVA01694, 1:1,000), Top panel: wild-type (WT); Bottom panel: IQGAP1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; IQGAP1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with IQGAP1 antibody (KVA01694, 1:1,000). Nuclei were stained blue with DAPI; IQGAP1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Validation of IQGAP1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HepG2 cells were stained with IQGAP1 antibody (KVA01694, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of IQGAP1 expression in HepG2 cells using IQGAP1 antibody (KVA01694, 1:2,000). Green, isotype control; red, IQGAP1.